

Revised Indicative Scheme

241 - 245 Pennant Hills Road, CARLINGFORD September 2021

issued 24 / 09 / 2021 10 0

SUMMARY

YIELD

Residential

Unit Type 1 bed 2 bed Number of Units 5 60 5% 62% Percentage

total	
97	
100%	

Commercial

Total Commercial Area

1970 sqm

ADG compliance

compliance	required	complies		
cross ventilation	60%	yes - 71%	54 units (out of 76 units) note: cross vent only required in first 9 storeys	
solar access	2hrs to 70%	yes - 79%	77 units (out of 97)	
no direct sunlight	limited to maximum 15%	yes - 10%	10 units (out of 97)	
communal open space	25% of site area / 50% solar access.	yes - 38%	principal areas recieve at	
deep soil	7% of site area / 6m min dimension	yes - 26%	least 2 hours solar access	
balcony areas	minimum depth 2m	yes		
building separation	12m separation between habitable rooms up to 4 storeys	yes	6m provided to side boundary 12m provided between 3 storey row units and commercial podium	
carparking	between 300 - 350 space depending on use of commercial tenancies	yes	over 3 or 4 levels	
storage	50% of storage provided inside unit	yes		
kitchen light & ventilation	back of kitchen - maximum 8m from a window	yes		
ceiling heights	min 3.3m mixed use (level 1) min 2.7m to habitable rooms min 2.4m to non habitable rooms	yes yes yes		

3 bed

32

33%

FSR

Site Area (sqm) After Road Widening	5765
Level	GFA (sq m)
Level 00	1707
Level 01	1712
Level 02	1526
Level 03	829
Level 04	845
Level 05	829
Level 06	845
Level 07	829
Level 08	845
Level 09	512
Level 10	403
Level 11	403
Level 12	403
Level 13	403

Proposed GFA	12091
Proposed FSR	2.1 : 1

HEIGHT

Level	Floor to Floor Height
Level 00	5.1
Level 01	4.3
Level 02	3.1
Level 03	3.1
Level 04	3.1
Level 05	3.1
Level 06	3.1
Level 07	3.1
Level 08	3.1
Level 09	3.1
Level 10	3.1
Level 11	3.1
Level 12	3.1
Level 13	3.5
Roof Feature Zone	2.0

Proposed Building Height	49 m
Proposed No. Storevs	14

SCHEDULE

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PROPOSED

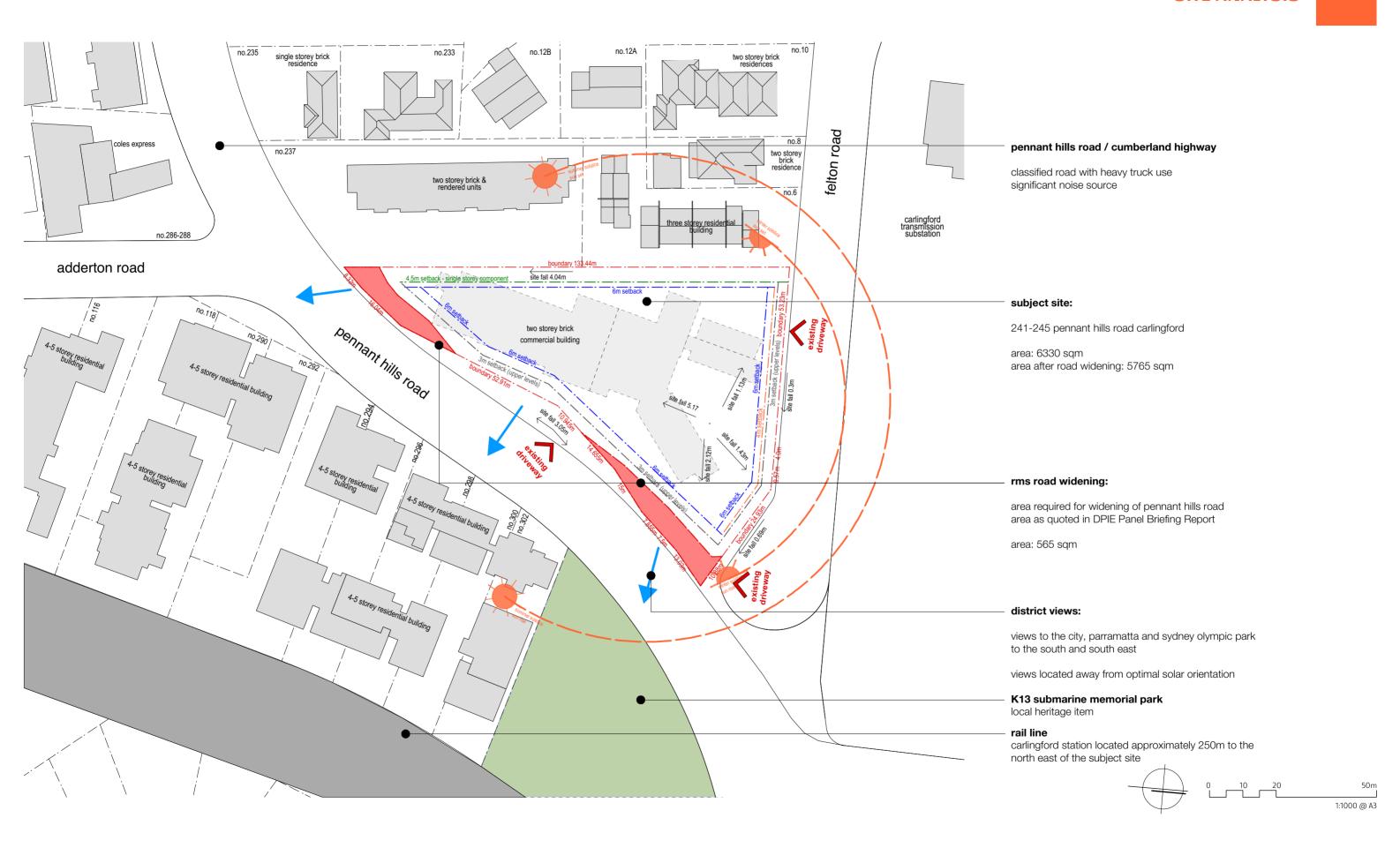
The proposed amendments to the Hills Shire Local Environment Plan 2012 are:

14 storeys Height: 49m

FSR 2.10:1

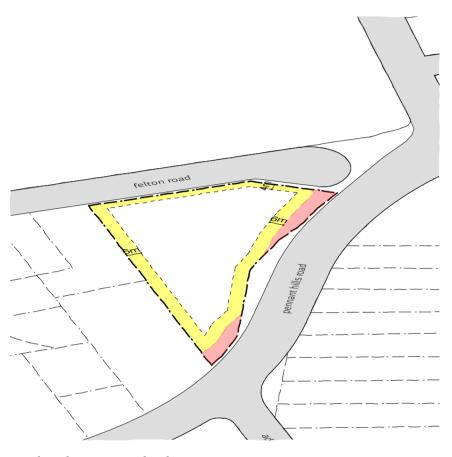
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SITE ANALYSIS



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DESIGN ANALYSIS



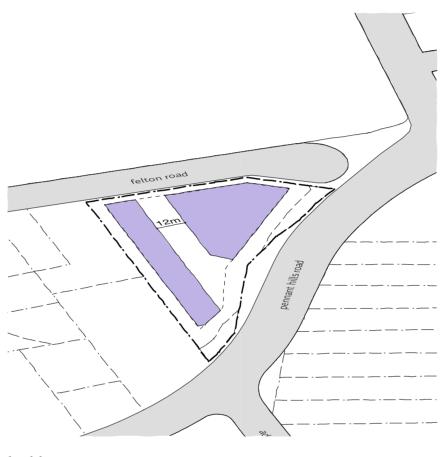
road widening + setbacks

portion of site to be acquired to enable the widening of pennant hills road

6m setback to pennant hills road boundary (after application of road widening area)

6m setback to western boundary, to provide required ADG building separation and adequate privacy to neighbouring multi dwelling developments

4m setback to felton road boundary

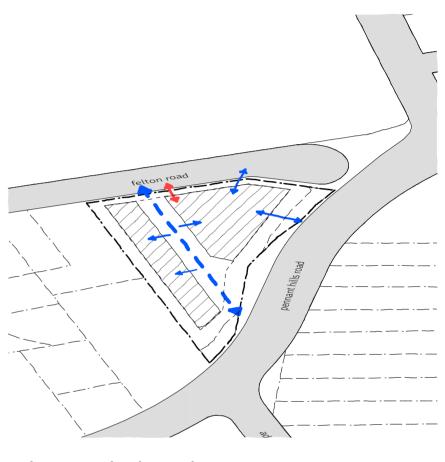


building zones + separation

triangluar site split into two building location zones

one towards the north, closest to carlingford station, new highrise developments and amenities

one along western boundary, adjacent to medium density residential areas



pedestrian + vehicular circulation

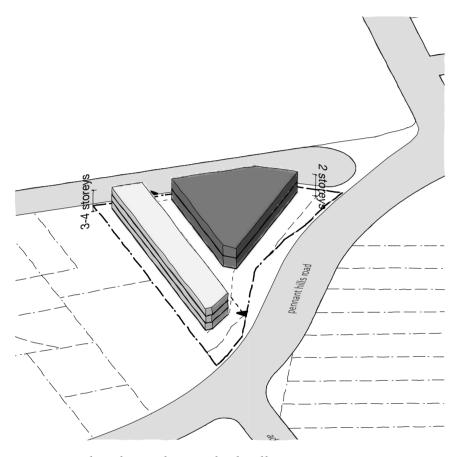
separation between building zones to be utilised as a public, pedestrian through site link, connecting felton road and pennant hills road

development provided with direct pedestrian entries from both street frontages and from through site link for activation

single vehicular entry / exit from felton road

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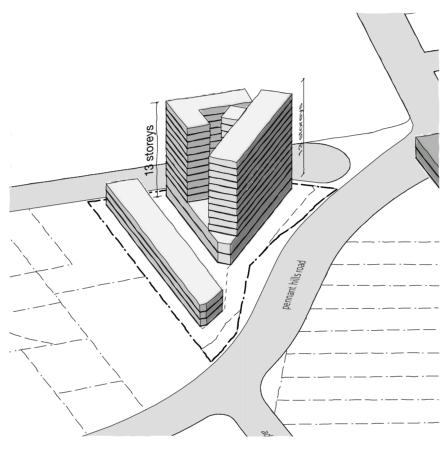
DESIGN ANALYSIS



commercial podium + low scale dwellings

two storey commercial podium in the north eastern corner of the site

low-scale residential building along western boundary to provide appropriate transition between adjacnet residential zones, proposed development and new high rise development to the north east



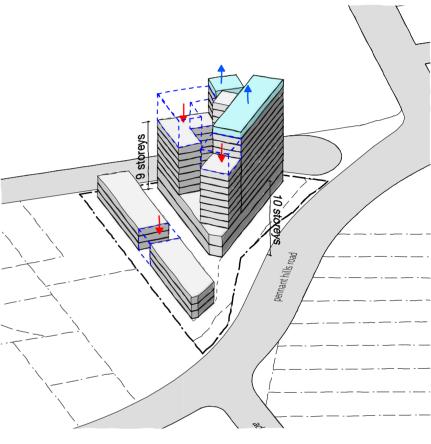
residential tower

residential tower above commercial podium

13 storey volume similar to new / approved mixed use developments along pennant hills road

massing oriented to provide high amenity for future residents by:

maximising exposure to city and district veiws across pennant hills road maximising solar aspect towards felton road



redistribute massing

massing redistributed to:

reduce bulk / height of tower adjacent to low rise dwellings and surrounding low scale residential areas

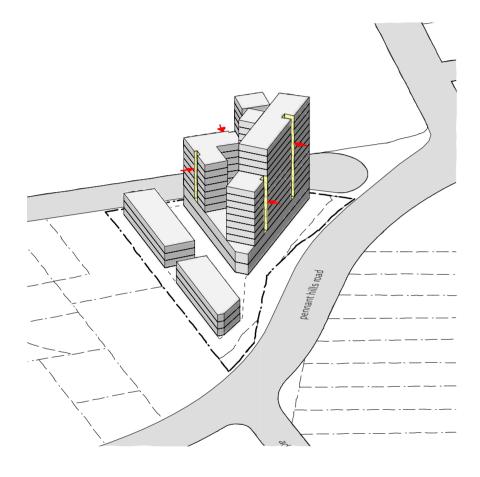
relocate building volume in the north east portion of the site, closest to carlingford train station and new / anticipated 17-18 storey developments (allowable under current planning controls)

maximum building height: 14 storeys transition building height: 9 - 10 storeys

redistributed massing provides appropiate transition between low density areas to the west and high-rise developments to the north east

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building indentations

indentations provide relief and articulation to building massing maximum length of unbroken facade: 30m



solar aspect + facade articulation

building volumes adjusted to capture sun and views

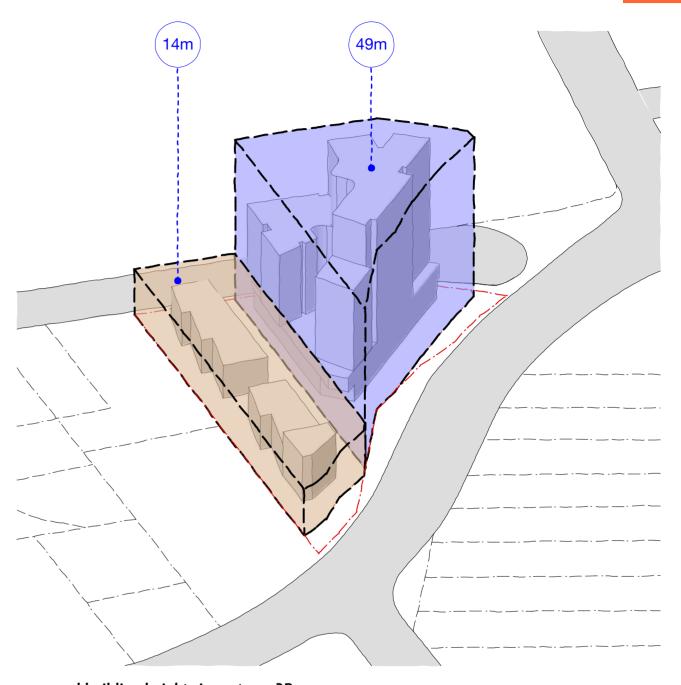
pushing / pulling of volumes creates dynamic massing to provide visually interesting, highly articulated development

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PROPOSED HEIGHTS - METRES



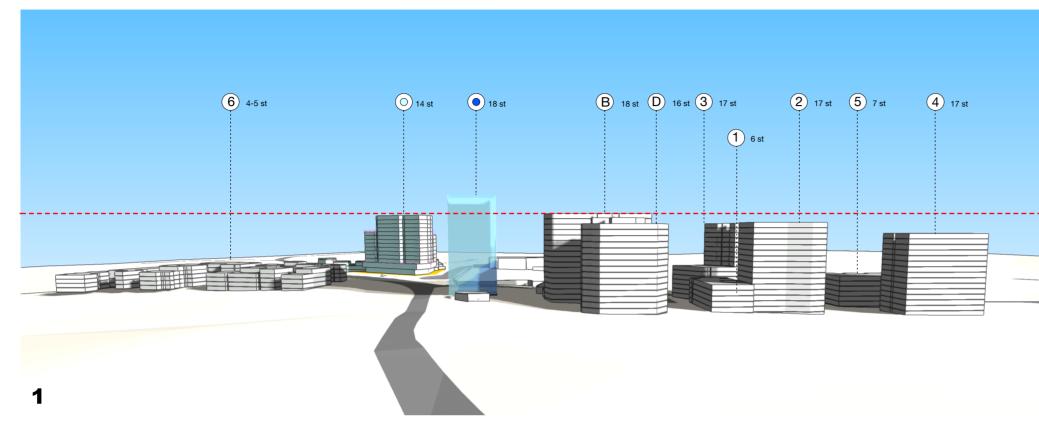
proposed building heights in meters - plan



proposed building heights in meters - 3D indicative scheme massing shown in grey

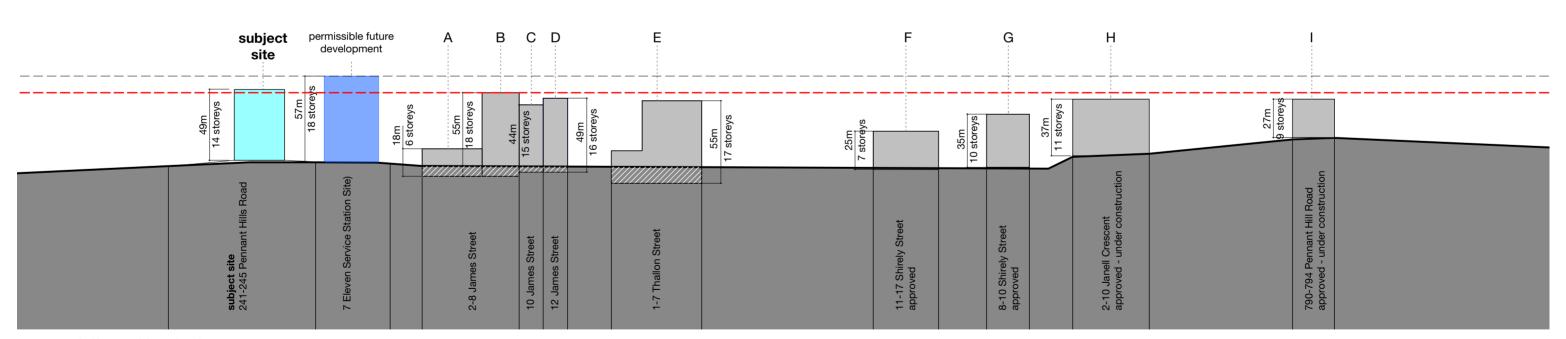
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view to subject site from pennant hills road



pennant hills road height datum

compartive heights of new / approved developments along pennant hills road

proposed maximum height and number of storeys is commensurate with the scale of recently constructed / approved developments

proposed maximum height is below permissible height on adjacent site (no. 243 pennant hills road)

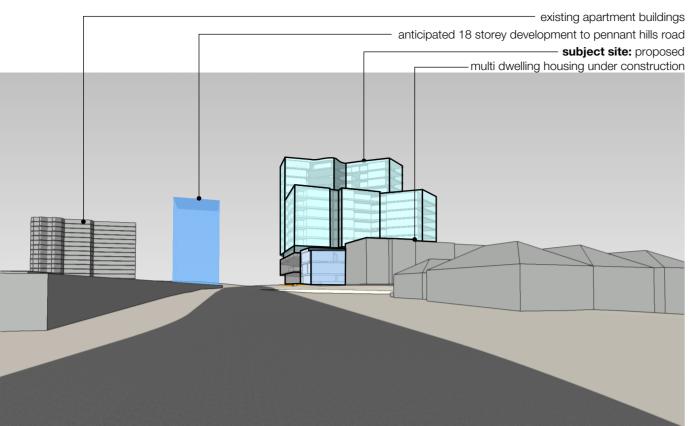
heights / number of storeys for new / approved developments is as per DA documentation accessed via Council's website

height of permissible development at No 243 Pennant Hills Road has been calculated from allowable height under Hills LEP 2012 and surveyed ground levels

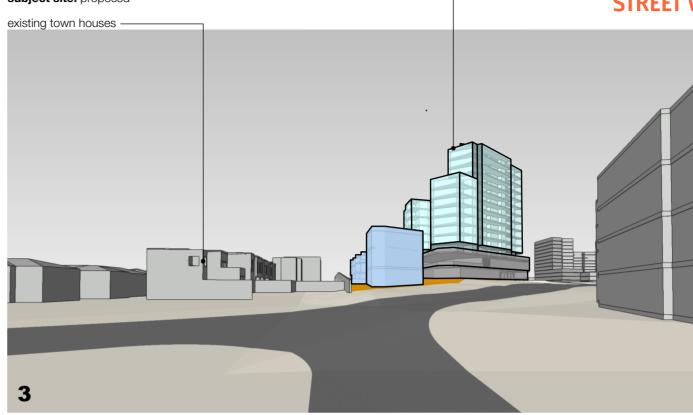
actual height of buildings may vary

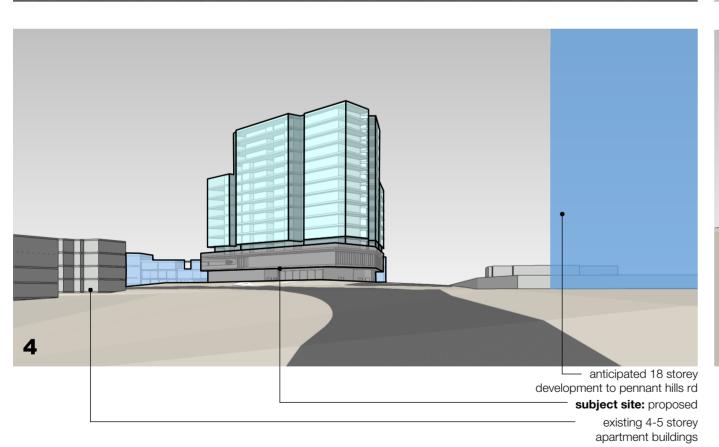
1:2500 @ A3

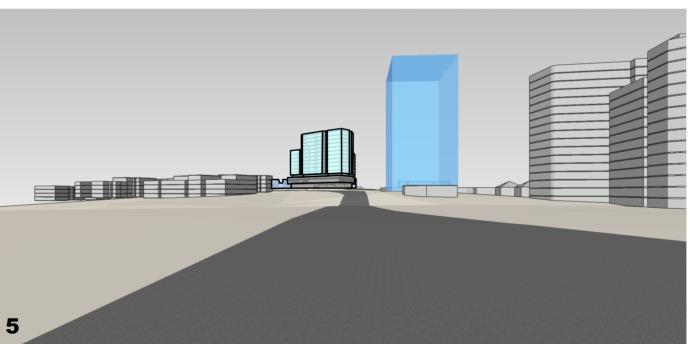
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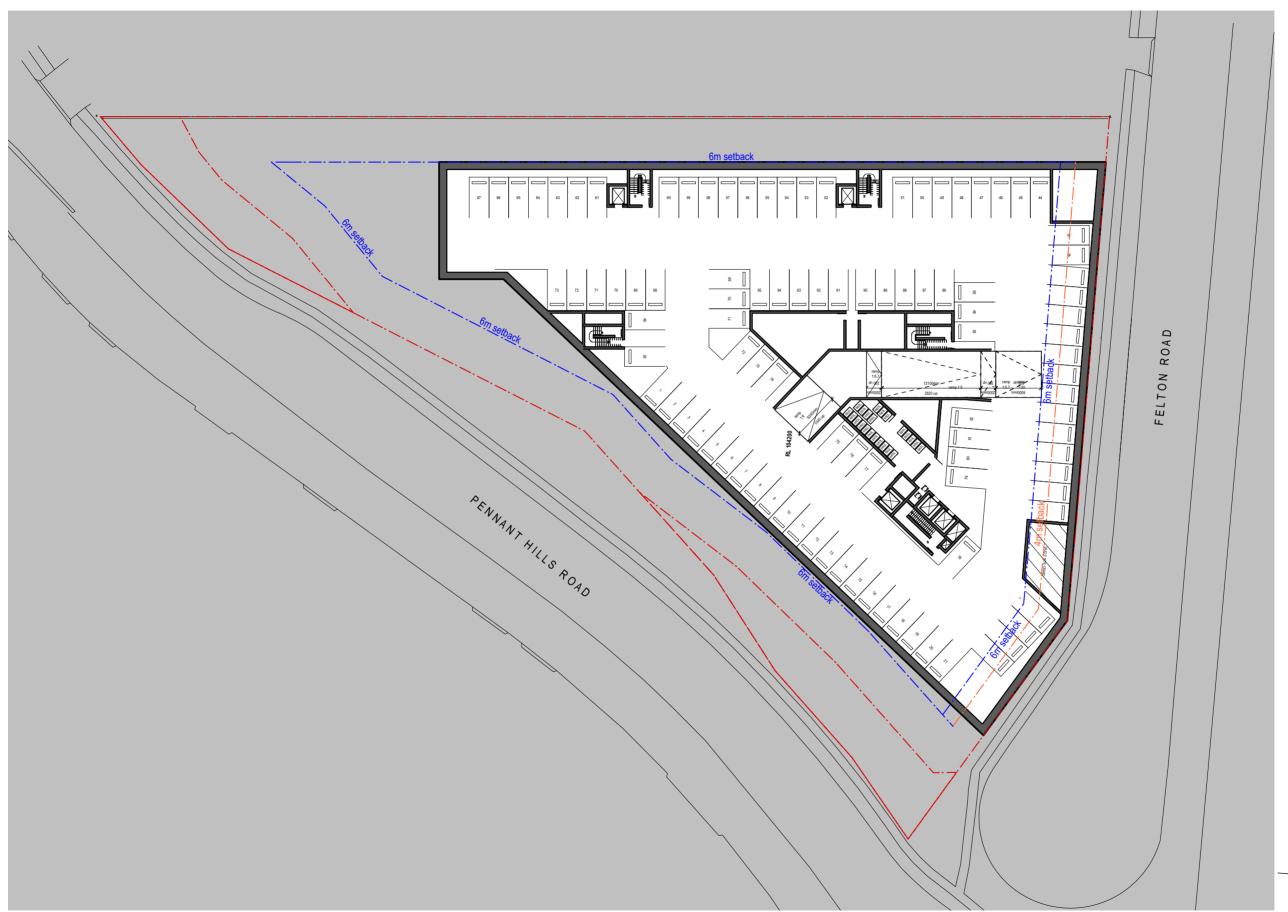


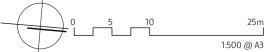


PRELIMINARY - 09/09/21

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1:500 @ A3













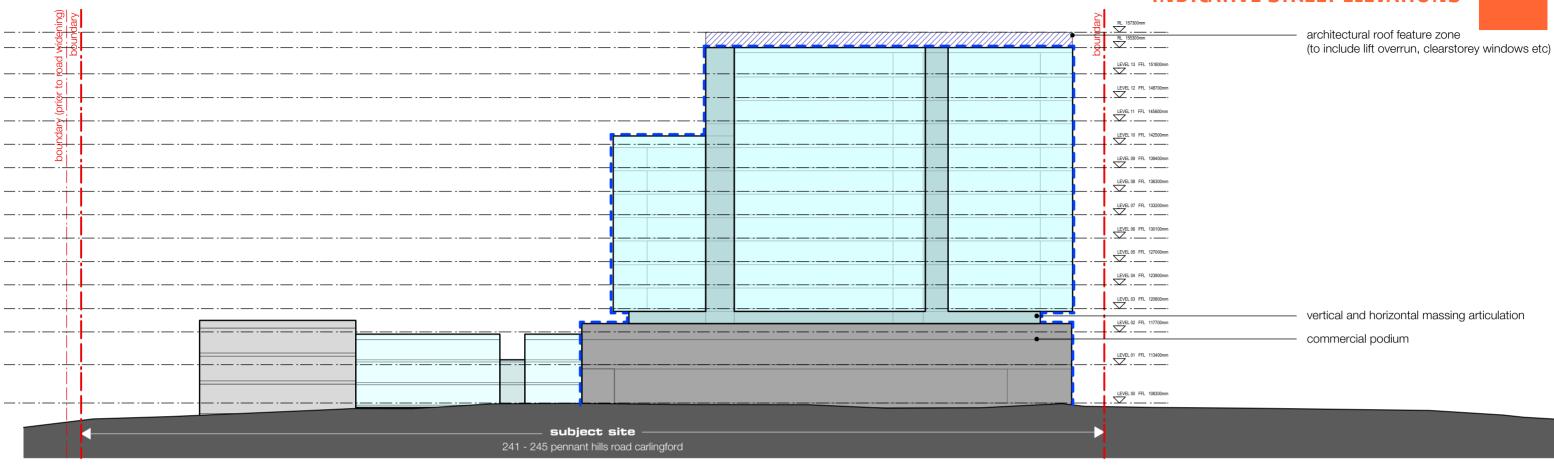




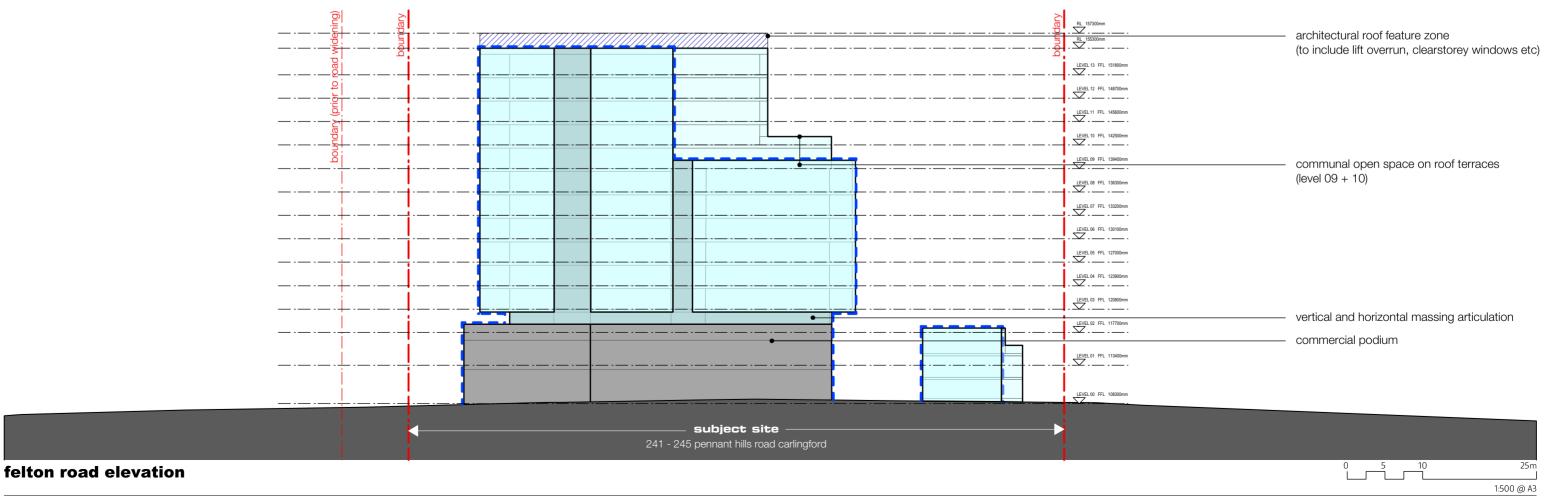




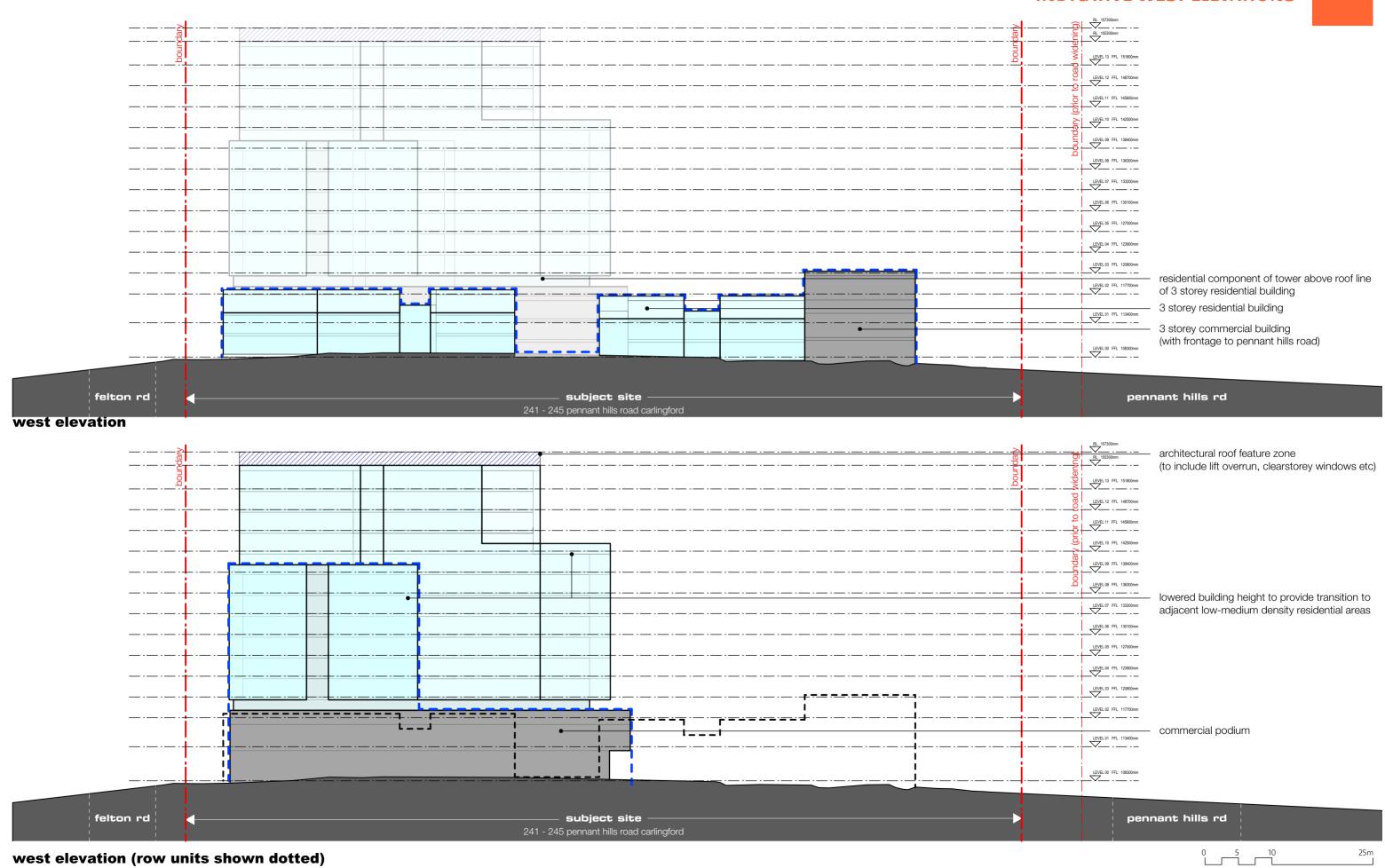
INDICATIVE STREET ELEVATIONS



pennant hills road elevation

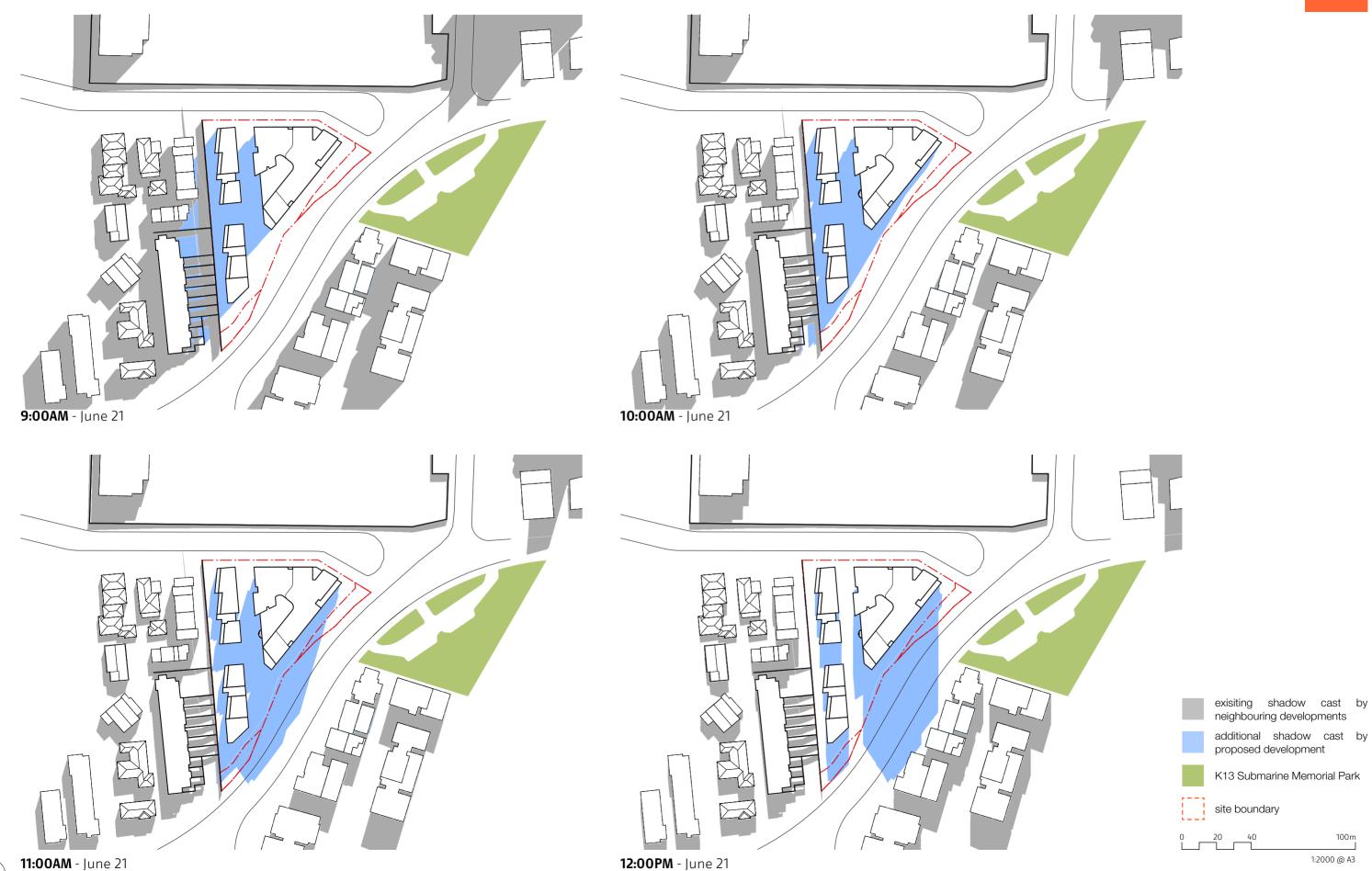


INDICATIVE WEST ELEVATIONS



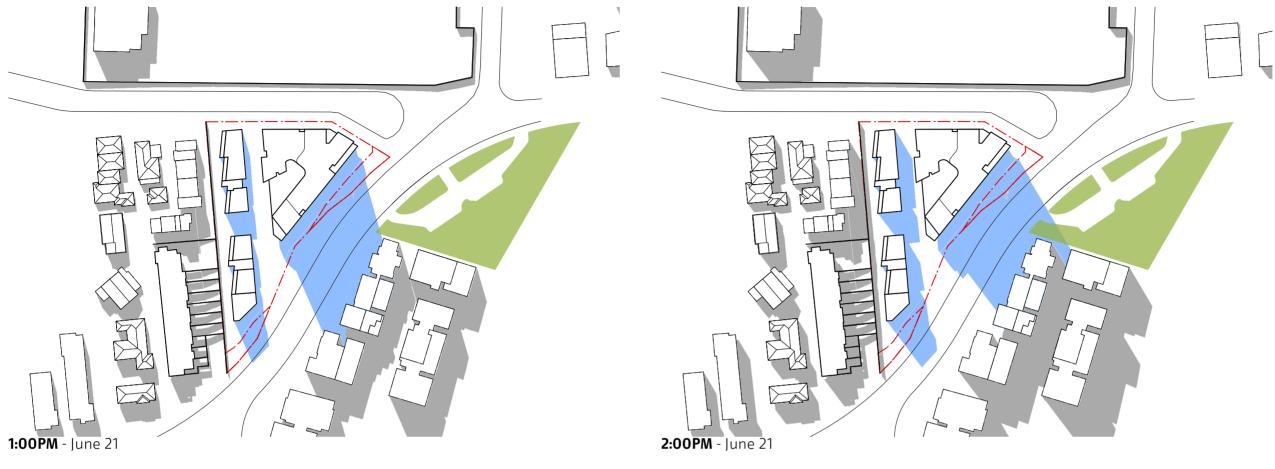
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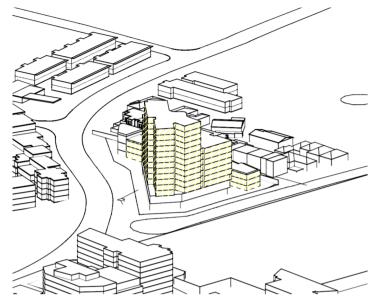


exisiting shadow cast by neighbouring developments additional shadow cast by proposed development K13 Submarine Memorial Park site boundary 1:2000 @ A3

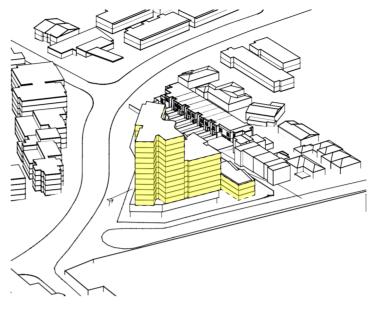
3:00PM - June 21

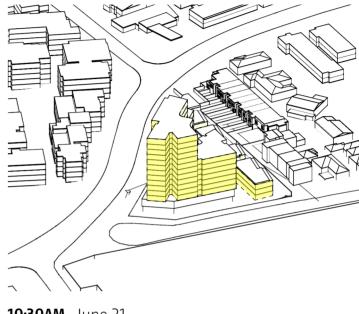
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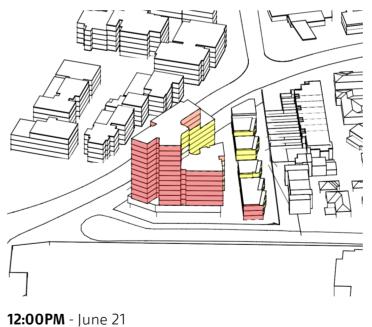
9:00AM - June 21 **9:30AM** - June 21

10:00AM - June 21

10:30AM - June 21







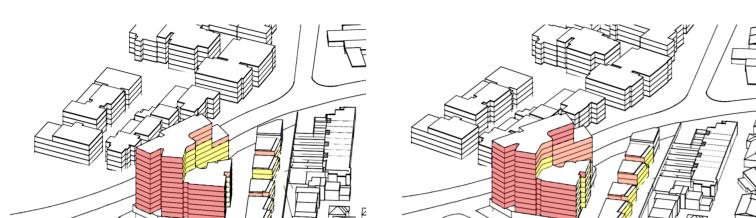
facade receives one hour of direct solar access facade receives two hours of direct solar access facade receives three or more hours of direct solar access

facade begins to receive direct solar access

NB all visible surfaces in images receive sun

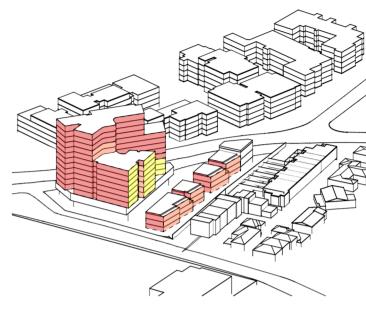
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SOLAR ANALYSIS - VIEWS FROM SUN









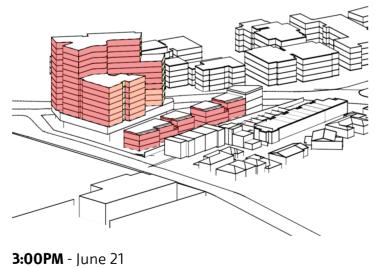
12:30PM - June 21

1:00PM - June 21

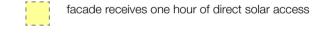
1:30PM - June 21

2:00PM - June 21





facade begins to receive direct solar access



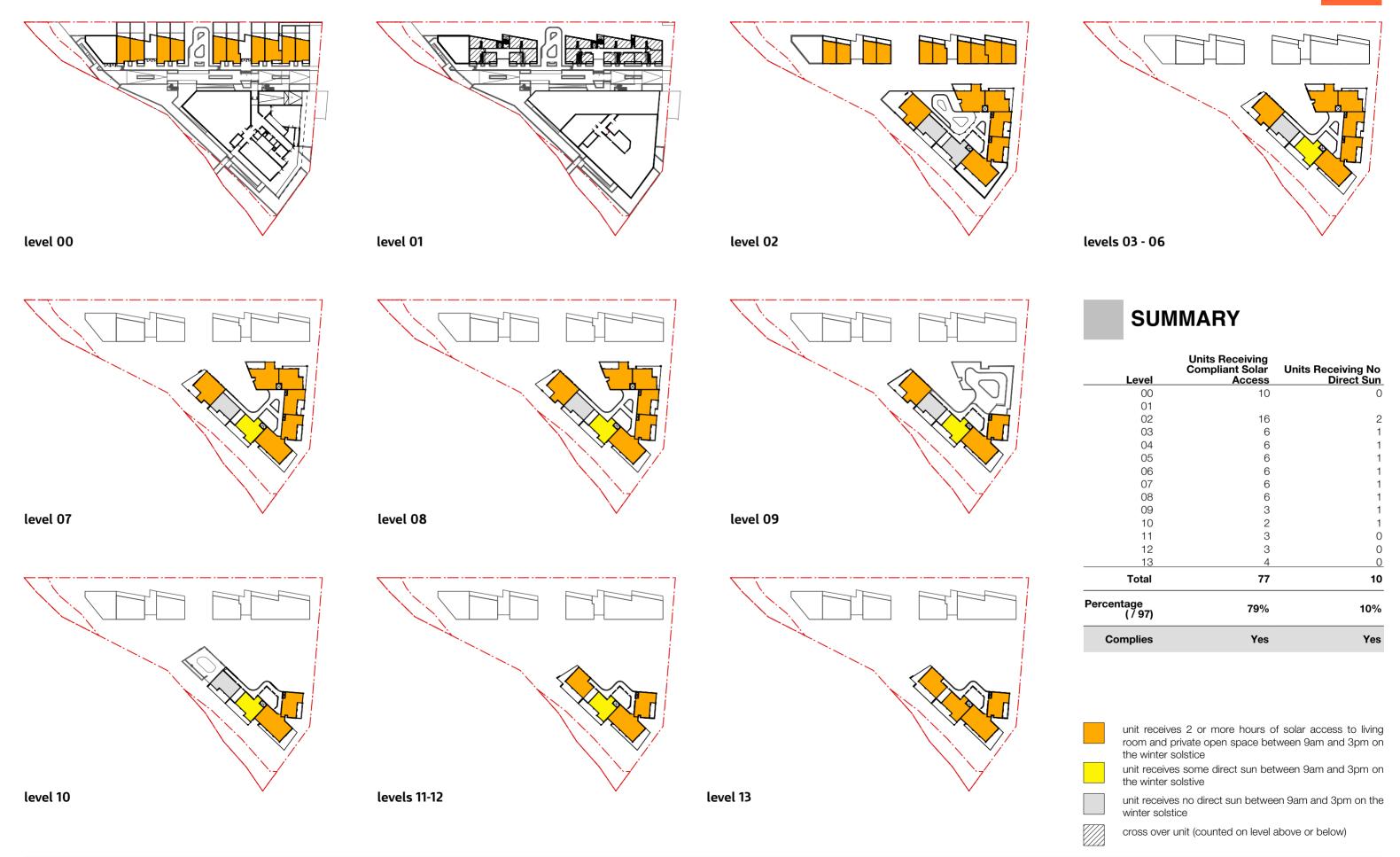
facade receives two hours of direct solar access

facade receives three or more hours of direct solar access

all visible surfaces in images receive sun

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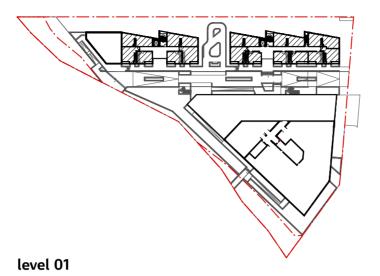
SEPP 65 COMPLIANCE - CROSS VENTILATION

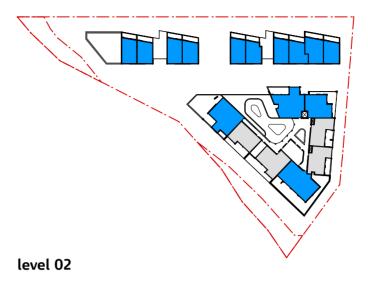
Percentage in

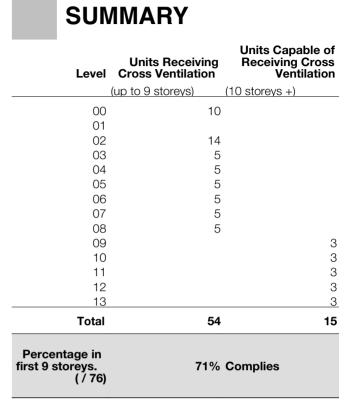
14 storeys (/ 97)





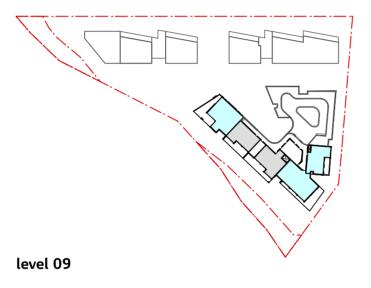


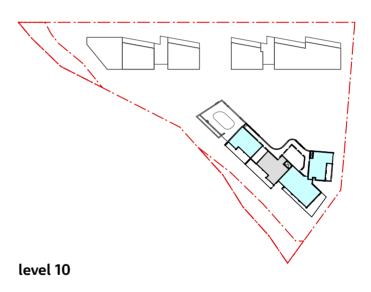


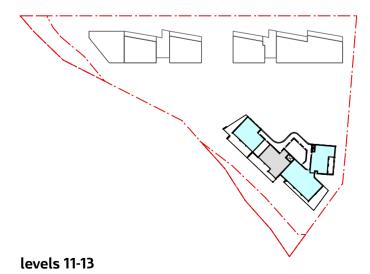


71%









unit receives cross ventilation

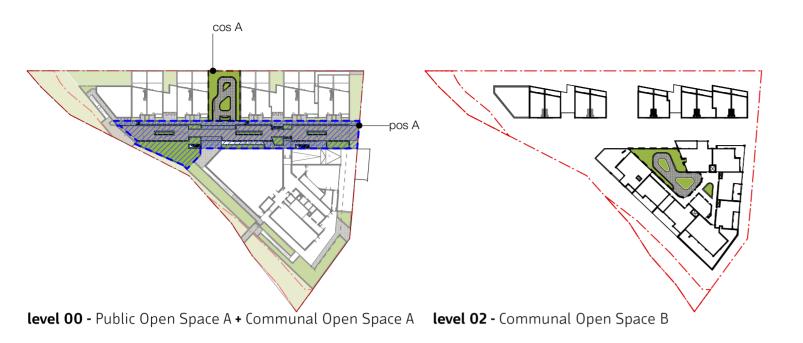
upper level unit capable of receiving cross ventilation (if balcony cannot be fully enclosed)

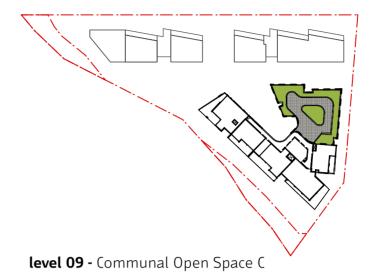
unit does not receive cross ventilation

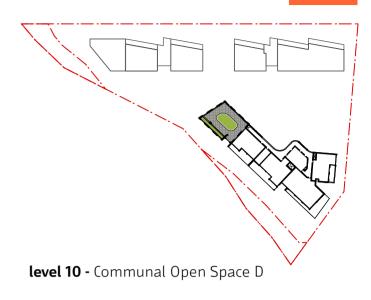
cross over unit (counted on level above or below)

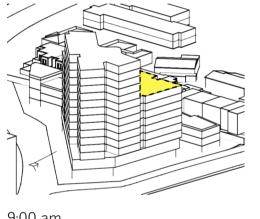
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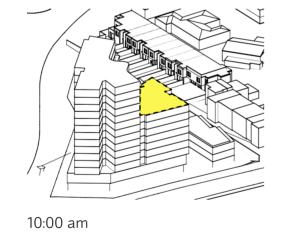
SEPP 65 COMPLIANCE - COMMUNAL OPEN SPACE

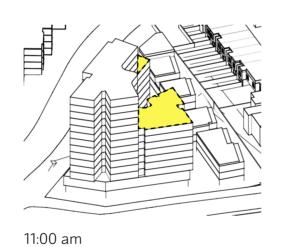


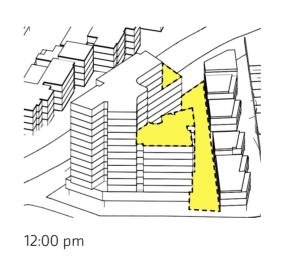






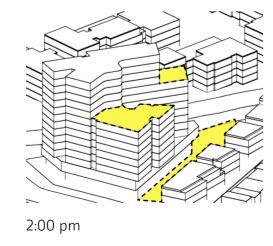


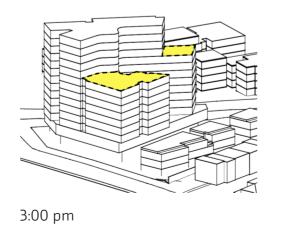






1:00 pm





SITE AREA

RMS Road Widening Acquisition:	565 sqm
Site Area After Road Widening:	5765 sqm

COMMUNAL + PUBLIC OPEN SPACE

Space	Area (sqm. approx)	Hours Solar Access
pos a	1070	2
cos a	250	0
cos b	270	0
COS C	430	6
cos d	160	4
Total Recreation Area	2180	-
% of Site Area	37.8%	-
Complies	Yes	Yes

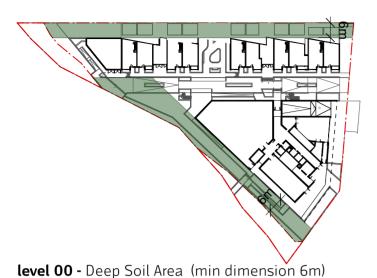


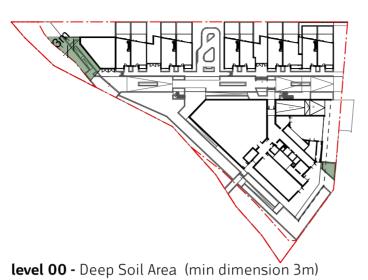
open space receiving solar access to 50% of its area

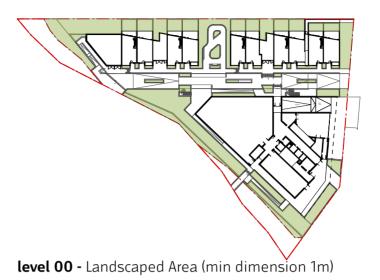
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SEPP 65 + COUNCIL COMPLIANCE - DEEP SOIL + LANDSCAPE









SITE AREA

Existing Site Area: 6330 sqm 565 sqm RMS Road Widening Acquisition:

Site Area After Road Widening: 5765 sqm



Deep Soil Area @ 6m: 1542 sqm % of Site Area 26.7% Complies Yes Deep Soil Area @ 3m 167 sgm Total Deep Soil Area 1709 sqm

% of Site Area



Landscaped Area @ 1m

ground structures)

1603 sqm

% of Site Area

27.8% Complies Yes

deep soil area (free from basement and above

landscaped area (free from above ground strucutres and paving)

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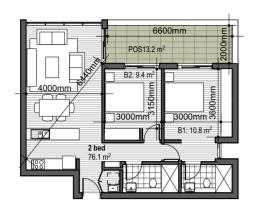
SEPP 65 COMPLIANCE - UNIT LAYOUTS

POS 36.4 m²

B2: 9.3 m²

2 bedroom type c

single aspect, south-east facing



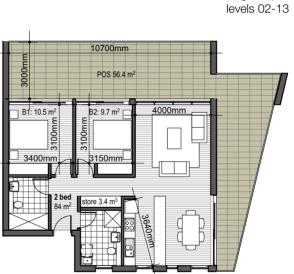
2 bedroom type a

corner, north and east facing levels 02-08



2 bedroom type b

corner, north and west facing levels 02-08



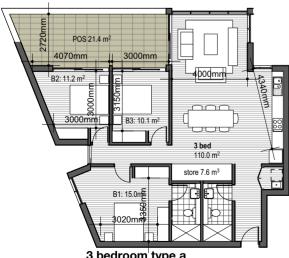
2 bedroom type d single aspect, south-east facing levels 02-10

POS 26.8 m²



2 bedroom type e

corner, west, south and east facing levels 11-13



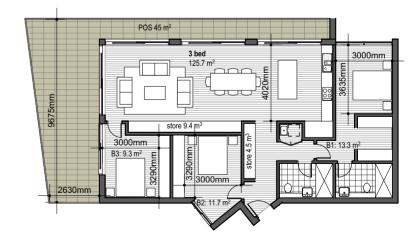
3 bedroom type a

corner, west and south facing levels 02-08



3 bedroom type b

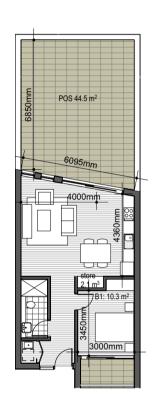
corner, west, south and east facing levels 02-09

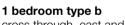


3 bedroom type c

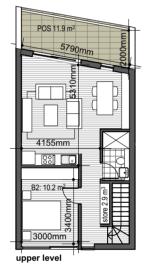
corner south-east and north-east facing levels 02-13



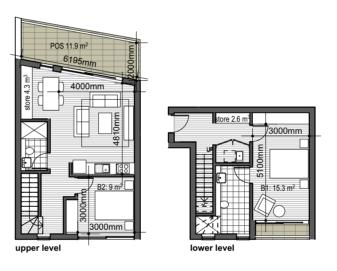




1 bedroom type b cross through, east and west facing 55 m²

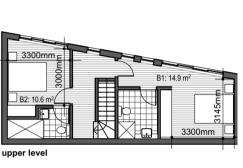


2 bedroom type f cross over / through, east and west facing $76 \, \text{m}^2$



2 bedroom type g cross over / through, east and west facing $86 \, \text{m}^2$





3 bedroom type d cross over / through, east and west facing 110 m²

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SITE AREA

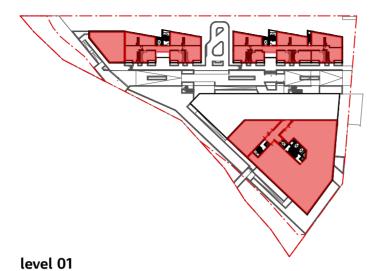
FSR + YIELD ANALYSIS

6330 sqm

565 sqm

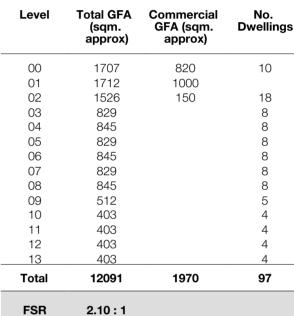
5765 sqm





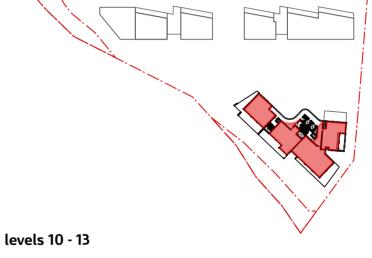












COMPARABLE SITES



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